

Abdullah Al Masud

Software Engineer | Android | Flutter | Kotlin Multiplatform | Backend APIs | CI/CD

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PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience specializing in native Android, Flutter, and Kotlin Multiplatform mobile application development. Proven expertise in building high-performance, scalable mobile applications using clean architecture principles. Skilled in REST API, MQTT, gRPC, GraphQL and WebRTC integrations, with additional experience in backend development using Laravel.

TECHNICAL SKILLS

Languages: Java, Kotlin, Dart, Python, JavaScript, PHP, SQL, XML, HTML5, CSS3
Android: Android SDK, Jetpack Compose, Hilt, Coroutines, Flow, RxJava, Retrofit, Room Database, Google Maps
Flutter: Bloc, GetIt, GoRouter, Dio, Freezed, json_serializable, Dart Streams, Material Design
Kotlin Multiplatform: Kotlin Coroutines & Flow, Ktor, Koin, Kotlinx Serialization, Compose UI
Architecture & Patterns: Clean Architecture, MVVM, MVC, Bloc Pattern, Dependency Injection
API & Communication: REST API, MQTT, gRPC (Protocol Buffers), GraphQL, and WebRTC
Web & Backend: Laravel, Bootstrap, HTML5, CSS3
Tools & Platforms: Android Studio, VS Code, Xcode, Git, Postman, Jira, Firebase, Fastlane
Databases: MySQL, SQLite, Firebase Realtime Database, Cloud Firestore
Operating Systems: MacOS, Windows, Android, Ubuntu

PROFESSIONAL EXPERIENCE

- NybSys Pvt. Ltd.** Sep 2021 – Present
Dhaka, Bangladesh
- Senior Software Engineer** Sep 2026 – Present
Part-time
- * Continue contributing to enterprise-grade Android, Flutter, and Kotlin Multiplatform applications on a part-time basis
 - * Maintain and support the CDAS Employee App (Kotlin Multiplatform) for DataNet, addressing bug fixes and incremental feature updates
 - * Provide technical guidance and mentorship to development teams
 - * Review code architecture and optimize existing mobile applications
- Senior Software Engineer** Sep 2025 – Aug 2026
Full-time
- * Architect and develop enterprise-grade Android, Flutter, and Kotlin Multiplatform applications utilizing clean architecture and SOLID principles
 - * Building a Kotlin Multiplatform mobile app for DataNet – a NybSys sister company operating in Eswatini, Lesotho and South Africa – targeting Android & iOS with shared business logic
 - * Integrated REST API, MQTT (Connect to IoT devices), gRPC (Protocol Buffers), GraphQL, and WebRTC communication layers across multiple projects
 - * Implemented CI/CD pipelines using Fastlane for automated app distribution to Firebase App Distribution and Google Play Store
 - * Lead cross-functional Agile teams in delivering large-scale mobile projects on schedule
 - * Implement modern development practices including Jetpack Compose, Hilt and Koin as dependency injection, reactive programming with Kotlin Coroutines, Flow, RxJava and Dart Streams
 - * Conduct code reviews and mentor junior developers on best practices and design patterns
 - * Optimize application performance resulting in improved user experience and reduced crash rates
- Software Engineer** Sep 2021 – Oct 2025
Full-time
- * Developed and maintained Android and Flutter applications using clean architecture principles
 - * Integrated REST API and MQTT communication layers for IoT connectivity
 - * Collaborated with cross-functional teams to deliver mobile solutions on schedule
 - * Implemented modern development practices including Jetpack Compose and reactive programming

Mobile Application Engineer

Sep 2020 – Sep 2021

Full-time

- * Developed cross-platform mobile applications using Flutter and native Android frameworks
- * Built and maintained RESTful APIs and admin panels using Laravel and PHP for mobile app backends
- * Integrated third-party services including payment gateways, maps, and analytics platforms
- * Collaborated with QA teams to ensure thorough testing and bug-free releases
- * Participated in full software development lifecycle from requirement analysis to deployment

KEY PROJECTS

CDAS Employee App | *Kotlin Multiplatform · DataNet / NybSys*

- Developing a Kotlin Multiplatform with Compose UI mobile application for DataNet's Central Deduction Administration System (CDAS), serving government and financial sectors across Eswatini (formerly Swaziland), Lesotho and South Africa
- MVP features: user login, deduction (loan) request submission, loan history, application status tracking, and user profile – targeting both Android & iOS with shared business logic and UI layer
- **Technologies:** Kotlin, Kotlin Multiplatform, Compose UI, Coroutines, Flow, Ktor, Koin, Kotlinx Serialization, REST API, Fastlane

Money Track | *Offline & Secure – Privacy-First Personal Finance App*

- An offline-first personal finance application for tracking income, expenses, accounts, budgets, and investments without relying on cloud storage or continuous internet access.
- **Technologies:** Dart, Flutter, Bloc, Drift, Cryptography, etc.

Xtreme VPN | *Security & Privacy Application*

- Developed a secure VPN application for Android providing encrypted internet connectivity and online privacy protection
- **Technologies:** Java, Kotlin, REST API, OpenVPN protocol, Fastlane

Sentra PTT | *Voice & Data Communication Platform*

- Developed a comprehensive push-to-talk communication application featuring AI-powered collaboration tools, real-time messaging, location sharing, and rich media capabilities for enhanced team coordination
- **Technologies:** Android, Java, Kotlin, MQTT, gRPC(Protocol Buffers), Retrofit, Room Database, WebRTC, Fastlane

DrinkWell | *Clean Water Management System*

- Created two Flutter-based mobile applications for managing water ATM operations and dealer-operator transactions
- **Pump Operator App:** User registration, NFC card management, balance recharging, daily report generation
- **Dealer App:** Fund transfers, transaction tracking, operator management, financial reporting
- **Technologies:** Flutter, Dart, REST API, NFC tag reader, SQLite

Hokkaido Golf Club App | *Members-Only Golf Club Management*

- Designed and developed an Android application for exclusive golf club member access and facility management
- **Technologies:** Android, Java, Retrofit, Material Design

One-Click Order | *Wholesaler's Order Management App & Backend*

- Built a complete e-commerce solution including Android/iOS mobile app and a Laravel-based backend REST API with admin dashboard for authentication, product management and order processing
- **Technologies:** Flutter, Dart, Laravel, Bootstrap, PHP, MySQL, REST API

Augmented Learn | *Educational AR Application*

- Created an innovative educational app using augmented reality to enhance preschool learning experiences
- **Technologies:** Java, RxJava, Retrofit, ARCore, 3D modeling (Blender), Adobe Photoshop

EDUCATION

Dhaka International University
Bachelor of Science in Computer Science & Engineering

Dhaka, Bangladesh
2015 – 2019

ADDITIONAL INFORMATION

Languages: Bengali (Native), English (Professional Working Proficiency)

Interests: Building scalable mobile products, productivity-focused UI/UX, and exploring AI-driven and cross-platform technologies